

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of claims:

1. (Withdrawn and Currently amended) A method for selecting an aptamer capable of binding to a target, said method comprising the steps of: i) interacting an antisense oligonucleotide having the nucleotide sequence of SEQ ID NO:1 and being adapted to be attached to a solid support with [[a]] an oligonucleotide library containing multiple oligonucleotides, each of which includes having a complementary an antisense binding domain having a sequence complementary to SEQ ID NO:1 and a random nucleotide domain, the antisense oligonucleotide and the oligonucleotides in the library [[to]] form [[a]] double stranded duplexes, ~~said library oligonucleotide further having a random nucleotide domain~~; ii) immobilizing the duplexes ~~structure~~ on a solid support; iii) incubating the duplexes ~~structure~~ in the presence of the target; and iv) collecting library oligonucleotides that dissociate from the duplexes ~~structure~~ and bind to the target.

2. (Withdrawn) The method of claim 1, further comprising amplifying the library oligonucleotides collected at step iv) to provide an amplified population.

3. (Withdrawn) The method of claim 2 further comprising the step of sequencing clones derived from the amplified population.

4. (Withdrawn and Currently amended) A method for the selection of an aptamer specific for a target, said method comprising the steps of: i) providing [[a]] an oligonucleotide library containing multiple oligonucleotides, said library oligonucleotide comprising each of which includes an antisense binding domain having a sequence complementary to SEQ ID NO:1, at least one random sequence domain, a 3' primer binding domain and a 5' primer binding domain; ii) hybridizing the oligonucleotides in

~~the library oligonucleotide~~ to a biotinylated antisense oligonucleotide having the nucleotide sequence of SEQ ID NO:1 to form [[a]] duplex molecules on the beads; iv) incubating the beads with the target; v) collecting oligonucleotides which have bound to the target; and vi) amplifying the collected oligonucleotides.

5-8. (Cancelled)

9. (Currently amended) An aptamer selection system comprising an antisense oligonucleotide having the nucleotide sequence of SEQ ID NO:1, and [[a]] an oligonucleotide library containing multiple oligonucleotides, ~~said library oligonucleotide comprising each of which includes~~ an antisense binding domain having a sequence complementary to ~~the antisense oligonucleotide~~ SEQ ID NO:1 and at least one random nucleotide domain, wherein said antisense oligonucleotide is adapted to be attached to a solid support.

10. (Currently amended) [[An]] The aptamer selection system according to claim 9, wherein each of the oligonucleotides in the library ~~oligonucleotide~~ further comprises a first primer binding domain at the 5' end and a second primer binding domain at the 3' end.

11. (Currently amended) [[An]] The aptamer selection system according to claim 10, further comprising a first primer capable of binding to the first primer binding domain and a second primer capable of binding to the second primer binding domain.

12. (Currently amended) [[An]] The aptamer selection system according to claim 9, wherein each of the oligonucleotides in the library ~~oligonucleotide~~ comprises two random domains flanking the antisense binding domain.

13. (Currently amended) [[An]] The aptamer selection system according to claim 9, wherein the antisense oligonucleotide is biotinylated.

14. (Currently amended) [[An]] The aptamer selection system according to claim 13, further comprising avidin agarose beads.

15. (Currently amended) An aptamer selection system comprising an antisense oligonucleotide comprising SEQ ID. NO. 1, ~~a library oligonucleotide~~an oligonucleotide library containing multiple oligonucleotides each of which includes ~~comprising~~ SEQ ID. NO. 2, a P1 oligonucleotide comprising SEQ ID. NO. 3, a P2 oligonucleotide comprising SEQ ID NO. NO.4, and a P3 oligonucleotide comprising SEQ ID. NO. 5.

16. (Currently amended) [[An]] The aptamer selection system according to claim 10, wherein each of the oligonucleotides in the library ~~oligonucleotide~~ comprises two random domains flanking the antisense binding domain.

17. (Currently amended) [[An]] The aptamer selection system according to claim 11, wherein each of the oligonucleotides in the library ~~oligonucleotide~~ comprises two random domains flanking the antisense binding domain.

18. (Currently amended) [[An]] The aptamer selection system according to claim 10, wherein the antisense oligonucleotide is biotinylated.

19. (Currently amended) [[An]] The aptamer selection system according to claim 11, wherein the antisense oligonucleotide is biotinylated.

20. (Currently amended) [[An]] The aptamer selection system according to claim 12, wherein the antisense oligonucleotide is biotinylated.